

THE UNIVERSITY OF TEXAS AT EL PASO
Accounting and Information Systems Department

Michael L. Gonzales, PhD

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CIS 4330 Expert & Decision Support Systems, Spring 2022

IMPORTANT: This is a programming class. Students will be actively programming from the first week of class to the last. Students are expected to dedicate hours of study time outside of class.

Class Hours: 1:30 – 2:50 pm, TR, BUSN 320

Office Hours: TTR, 3:00 to 5:00pm, by appointment only

Textbook: Reading material will be announced during the semester as determined by Dr. Gonzales.

Course Software:

- IBM SPSS Modeler
- SAS Enterprise Miner

Course Description: Expert Systems and Decision Support Systems: A study of artificial Intelligence, expert systems, and the decision support systems concepts and technologies applied to cover development, implementation, and management of expert systems and decision support systems for business organizations. Tools such as languages, shells, and hardware for utilizing artificial intelligence in designing expert systems and decision support systems are covered.

Course Instruction: This is a hands-on class where students will be working with relevant software from day one. While reading material is recommended, it is the responsibility of the student to research topics covered in class. Some course content may be conducted remotely and the professor reserves the right to change the course content and schedule.

Grade Components:

	Weight
Concepts Exams (1)	100
Practical Exams (2)	200
Final Exam	100
Total (400 points)	400

Final Grade	Range
A	90% and up
B	80-89%
C	70-79%
D	60-69%
F	below 60%

Exams: All students are required to take the exams at the scheduled time which is to be announced in class. Makeup will only be given to students who have to miss due to “excused absences due to university-recognized activities” or under extreme circumstance. These students are required to send written notice to the instructor about the university-recognized activities ahead of time. See student handbook for a description of these activities.

Final Exam: Any student with a ‘B’ or better after the 3rd exam will not have to take the final.

Practical Exams and Project Grading: Professor will assign exam scores based on the following:

- Program execution without errors
- Program accomplishing objectives of assignment

CIS4330 Course Outline
(Professor reserves the right to change the course syllabus.)

Dates	Topic
01/18	- Course review and technology installation
01/20	- Review of AI, Data Science, and Machine Learning
01/25	- Data Science Processes: CRISP-DM, Team Data Science Process, SEMMA
01/27	- Statistics, Predictive, and Exploratory Algorithms
02/01	- Statistics, Predictive, and Exploratory Algorithms
02/03	- Concepts Exam #1
02/08	- SPSS Modeler Review – CRISP-DM
02/10	- Data Preparation
02/15	- Data Preparation
02/17	- Data Preparation
02/22	- Modeling
02/24	- Modeling
03/01	- Modeling
03/03	- Modeling
03/08	- Practical Exam #2 Review - SPSS Modeler
03/10	- Practical Exam #2 – SPSS Modeler
03/15	SPRING BREAK
03/17	SPRING BREAK
03/22	- SAS Enterprise Miner Review – SEMMA
03/24	- Sample, Explore, and Modify
03/29	- Sample, Explore, and Modify
03/31	LAST DAY TO DROP
04/01	LAST DAY TO DROP
04/05	- Sample, Explore, and Modify
04/07	- Sample, Explore, and Modify
04/12	- Model & Assess
04/14	- Model & Assess
04/19	- Model & Assess
04/21	- Model & Assess
04/26	- Practical Exam #3 Review – SAS Enterprise Miner
04/28	- Practical Exam #3 – SAS Enterprise Miner
05/03	- Course and Final Exam Review
05/05	- Course and Final Exam Review
MAY	Comprehensive Final Exam
05/09	Comprehensive Final Exam

Students with disabilities: If you feel you may have a disability that requires accommodations, contact the Disabled Student Services Office at 747-5148, go to the Union Bldg. East, room 106, or e-mail dss@utep.edu.

Academic integrity: The University of Texas at El Paso prides itself on its standards of academic excellence. In all matters of intellectual pursuit, UTEP faculty and students must strive to achieve excellence based on the quality of work produced by the individual. In the classroom and in all other academic activities, students are expected to uphold the highest standards of academic integrity. Any form of scholastic dishonesty is an affront to the pursuit of knowledge and jeopardizes the quality of the degree awarded to all graduates of UTEP. It is imperative, therefore, that the members of this academic community understand the regulations pertaining to academic integrity and that all faculty insist on adherence to these standards.

Any student who commits an act of scholastic dishonesty is subject to discipline. Scholastic dishonesty includes, but is not limited to, cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts. Proven violations of the detailed regulations, as printed in the Handbook of Operating Procedures (HOP), and available in the Office of the Dean of Students, and the homepage of The Dean of Students (DOS) at www.utep.edu, may result in sanctions ranging from disciplinary probation, to failing grade on the work in question, to a failing grade in the course, to suspension or dismissal, among others.